## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) In a cellular network in which a mobile station communicates with base stations through a wireless repeater, a method comprising:

causing an antenna of the wireless repeater to sweep over a coverage area through increments, and to thereby receive wireless signals from a plurality of base stations;

at each increment, receiving wireless signals;

determining a signal-to-noise ratio at each increment; and

based on the signal-to-noise ratio, the wireless repeater repeating the wireless signals at one of the increments.

## 2-6. (Canceled)

7. (Currently Amended) A method for dynamically directing a wireless repeater, the method comprising:

receiving wireless signals by directing an antenna to incrementally sweep its coverage area across a given area, and to thereby receive wireless signals from a plurality of base stations;

the wireless repeater determining carrier-to-cochannel interference ratios of the received wireless signals; and

based on the carrier-to-cochannel interference ratios, directing the wireless repeater to radiate amplified wireless signals at a given increment.

8. (Canceled)

- 9. (Previously presented) The method of claim 7, wherein receiving the wireless signals by directing an antenna to incrementally sweep its coverage area across a given area comprises receiving the wireless signals from a plurality of directional antenna components, where each directional antenna component is operable to receive wireless signals from a given coverage area.
- 10. (Previously Presented) The method of claim 7, further comprising for each of the received wireless signals, storing in data storage a coverage area identifier corresponding to an increment from which the wireless signals were received.
- 11. (Original) The method of claim 7, further comprising determining a PN-offset of each received wireless signal.
- 12. (Previously Presented) The method of claim 7, wherein directing the wireless repeater to radiate amplified wireless signals at a given increment comprises directing the wireless repeater to radiate the amplified wireless signals at an increment corresponding to a strongest carrier-to-cochannel interference ratio.

## 13. (Canceled)

14. (Previously Presented) The method of claim 7, further comprising radiating the amplified signals in a direction of a given sector of a given base station.

15. (Original) The method of claim 7, further comprising only repeating signals having a PN-offset of the given sector.

16. (Currently Amended) In a wireless repeater operable to radiate in a number of directions so as to provide a number of coverage areas, a method comprising:

incrementally adjusting the wireless repeater to receive wireless signals within the number of coverage areas, and to thereby receive wireless signals from a plurality of base stations;

determining characteristics of the received wireless signals; and

based on the characteristics, directing the wireless repeater to radiate amplified wireless signals to one of the number of coverage areas.

17. (Original) The method of claim 16, wherein incrementally adjusting the wireless repeater comprises directing a phased array antenna to sweep its coverage area over the number of coverage areas.

18. (Original) The method of claim 16, wherein incrementally adjusting the wireless repeater comprises rotating a directional antenna to sweep its coverage area over the number of coverage areas.

19. (Original) The method of claim 16, wherein the wireless repeater includes a plurality of antennas each operable to receive wireless signals from a given coverage area, and

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wherein incrementally adjusting the wireless repeater comprises selecting antennas from the plurality of antennas to receive the wireless signals.

20. (Original) The method of claim 16, further comprising for each of the

wireless signals, storing in data storage a coverage area identifier corresponding to a coverage

area from which the wireless signals were received.

21. (Original) The method of claim 20, wherein determining characteristics of the

wireless signals comprises determining characteristics selected from the group consisting of a

PN-offset of each wireless signal and a signal-to-noise ratio for each PN-offset.

22. (Original) The method of claim 21, wherein directing the wireless repeater

comprises directing the wireless repeater to radiate the amplified wireless signals to a given

coverage area having a coverage area identifier corresponding to a coverage area having the

highest signal-to-noise ratio.

23. (Currently Amended) A wireless repeater comprising:

a donor antenna that is operable to communicate with a plurality of base stations and to

receive wireless signals over a coverage area by incrementally sweeping across the coverage

area, thereby receiving wireless signals from a plurality of base stations;

a mobile station modem that receives wireless signals from the donor antenna and

identifies characteristics of the wireless signals received; and

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a processor operable to record in data storage the characteristics of the wireless signals received and, based on the characteristics, to direct the donor antenna to radiate amplified wireless signals at a given increment.

24. (Original) The wireless repeater of claim 23, wherein the characteristics are selected from the group consisting of PN-offsets of the wireless signals and signal to noise ratios  $(E_C/I_O)$  for each PN offset.

## 25. (Canceled)

- 26. (Previously Presented) The wireless repeater of claim 23, wherein at each increment, the donor antenna receives wireless signals and passes the wireless signals to the processor which records in the data storage the increment at which each wireless signal was received.
- 27. (Original) The wireless repeater of claim 26, wherein the mobile station modem includes a rake receiver that identifies PN-offsets in the wireless signals.
- 28. (Original) The wireless repeater of claim 27, wherein the processor records in the data storage the PN offsets and signal-to-noise ratios of the wireless signals at each increment.

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- 29. (Original) The wireless repeater of claim 28, wherein the processor instructs the donor antenna to radiate the amplified wireless signals to a base station that corresponds to an increment where the mobile station modem detected a highest signal-to-noise ratio.
- 30. (Original) The wireless repeater of claim 23, wherein the donor antenna is an antenna selected from the group consisting of an omni-directional antenna, a directional antenna, and a phased array antenna.
- 31. (Original) The wireless repeater of claim 23, wherein the donor antenna is a phased array antenna, and wherein the processor records the phase of the phased array antenna at which each wireless signal is received, and based on the characteristics of the wireless signals, directs the phased array antenna to radiate the amplified wireless signals at a given phase.